佐賀大学大学院戦略的国際人材育成プログラム 工学系研究科 (外国人奨学生) 学生募集要項

Strategic International Postgraduate Program (SIPOP) at Saga University

2020

Guide for Application for Foreign Scholarship Students

Application Deadline: May 22, 2020.

Academic Year Start: October 1, 2020.

Graduate School of Science and Engineering SAGA UNIVERSITY

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Strategic International Postgraduate Program (SIPOP) at Saga University

2020

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GUIDE FOR APPLICATION FOR

THE SAGA UNIVERSITY SCHOLARSHIP

FOR STRATEGIC INTERNATIONAL POSTGARADUATE PROGRAM (SIPOP) FOR FOREIGN STUDENTS IN SCIENCE AND TECHNOLOGY

Admission Policy

The aim of the Strategic International Postgraduate Program (SIPOP) for foreign students at the Graduate School of Science and Engineering, Saga University is to strengthen the collaboration of studies and education between Saga University and universities or institutes in Asian countries being based on applicants' mutual academic agreements and to develop more the international activities of Saga University in the world.

Nowadays, the science and technology progresses rapidly and we have received both benefits and negative influences. For the sound development of science and technology that contributes to human life, education and research should be performed from global points of view. The scope of this program is to research the advanced science and technology and to discuss about the effects of them and solve the problems raised from technologies and human activities for mankind and environments of the earth. The program is to educate creative students having the deepened insight and professional knowledge for the advanced sciences, technologies and environment and being able to work actively in the world.

The Strategic International Postgraduate Program (SIPOP) will be carried out at the all courses in the Department of Science and Advanced Technology. Those who have already co-worked and/or studied with professors of Saga University being involved professors of respective universities or institutes can apply for this program. Applicants are encouraged to decide the research fields and to designate relevant supervisors(s) given in the List of Academic Staffs, and have to get recommendations of the supervisor(s). The recommendations of the professors at applicant's own university are also required.

Doctor's Degree (Science, Engineering or Ph.D.) will be awarded to students on successful completion of the course.

The program started in October, 2007, rewarded students will get scholarship and the fees of entrance examination, entrance and tuition will be exempted. All lectures and instructions will be given in English for the oversea students to make the studies and researches easer.

The month of entrance is October, and foreign students can enter the program immediately after completing applicants' Master's Degree without learning Japanese language.

This is a call for application to the Doctor Course for the academic year of 2020. The guide is for oversea students.

QUALIFICATIONS

1. Applicants:

- **a.** Those who have already co-worked and/or studied with professors of Saga University being involved professors of respective university or institutes can apply for this program.
- **b.** Non-Japanese citizens arriving from foreign countries that are accepted as sovereign nations by the Japanese Government.
- 2. **Age:** Applicants younger than 35 years old are preferable, as of April 1, 2020.
- 3. **Academic career:** Student's record of applicants should belong to a highest class in the University from which the applicant graduated. The following candidates may apply for admission:
 - a. Those who have received Master's Degree from Japanese University.

佐賀大学大学院戦略的国際人材育成プログラム 佐賀大学奨学金留学生募集要項

佐賀大学大学院戦略的国際人材育成プログラム(SIPOP)はアジア諸国から優秀な外国人を受け入れ、佐賀大学とアジアの大学や研究所等と国際交流協定にもとづいて実施されている共同研究や共同教育を強化し、佐賀大学特有の実質的な国際活動を発展させようとするものです。

今日,科学技術は著しく進歩し,私たちはその恩恵と負の影響の両方を受けています。人類の幸せに資する科学技術の向上には、教育と研究は総合的かつグローバルな視点に立って取り組まなければなりません。本プログラムの目的は最先端科学技術の教育と研究を行い、その波及効果を議論し、科学技術や今日までの人類活動がもたらした地球環境の問題を解決し、より豊かな人類活動と地球環境を築くことであり、先端科学技術および環境に対して深い洞察力と専門力を有する学生を育て、世界で積極的に活躍できる創造的な学生を育てることです。

佐賀大学大学院戦略的国際人材育成プログラム(SIPOP)は佐賀大学大学院工学系研究科博士後期課程の全てのコースにおいて実施され、その教育と研究指導が行われます。国外から留学する者は佐賀大学の教授および所属する大学や研究所等を含む国際共同研究や国際共同教育(パートナーシッププログラムなど)の経験を有する学生、研究者などがこのプログラムに応募できます。志願者は、教員リストに記載されている研究分野と指導教員のうちから希望する研究分野を決定し、希望する指導教員を選んで、指導教員と申請大学(研究所)等の所属教員から推薦を受けなければなりません。

本コースの博士後期課程修了者には博士(理学、工学及び学術のいずれか)の学位が与えられます。

本プログラムは2007年10月から開始し、奨学金が支給され、且つ授業料等が不徴収です。 すべての講義と指導は外国人のために英語で行われます。なお、入学は10月であり、外国 で大学院修了後直ちに日本語の教育を受けることなく入学することができます。

ここに、佐賀大学奨学金による戦略的国際人材育成プログラム (SIPOP) の 2020 年入学 を募集いたします。

本募集要項は外国人留学生枠のものです。

応募資格

- 1. 国籍:日本国籍を有さず、日本政府と国交のある国の出身者で、原則として新たに日本国外から留学する者
- 2. 年齢: 2020年4月1日現在で35歳未満の者が望ましい
- 3. 学歴等:下記のいずれかに該当し、学業成績が最終出身大学等において最上位クラスに 属する者
 - a. 日本の大学から修士の学位を授与された者
 - b. 外国において、修士の学位に相当する学位を授与された者又は 2020 年 9 月 30 日までに授与される見込みの者
 - c. 外国の学校が行う通信教育における授業科目を我が国において履修し、修士の学位に相当する学位を授与された者又は2020年9月30日までに授与される見込みの者
 - d. 我が国において、外国の大学院の課程を有するものとして当該外国の学校教育制度において位置付けられた教育施設であって、文部科学大臣が別に指定するものの当該課程を修了し、修士の学位に相当する学位を授与された者又は2020年9月30日までに授与される見込みの者

- b. Those who have received Degree equivalent to Master's Degree of Japanese Universities in foreign country, or will receive it in foreign country as of September 30, 2020.
- c. Those who have received a Degree equivalent to Master's Degree of Japanese Universities from a foreign school through correspondence education in Japan, or will receive the Degree as of September 30, 2020.
- d. Those who have received a Degree equivalent to Master's Degree of Japanese Universities at educational institutions of the foreign country in Japan, which is designated by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government, or will receive the Degree as of September 30, 2020.
- e. Those who have been designated by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government.
- f. Those who are 24 years old or more as of September 30, 2020, and are admitted by the Graduate School of Saga University as that applicants' academic abilities are equivalent to or higher than Master's Degree of Japanese Universities upon reviewing the submitted materials.
- 4. **Health:** Applicants should be in good health both mentally and physically.
- 5. **Language proficiency:** A good working level of English is required.
- 6. **Arrival in Japan:** Applicants should arrive in Japan by September 30, 2020, if admitted.

Remarks

- 1) Military personnel and civilian employees of the armed forces are not eligible.
- 2) Admission shall be canceled if the applicant fails to arrive in Japan by the date mentioned above.
- 3) At our university, only one member of a married couple should apply. The scholar-ship cannot be applied for when one member of a married couple has received the Japanese government scholarship.
- 4) Neither applicants for other universities in Japan for the Japanese government scholarship, nor applicants nor the recipients of any other scholarships over 100,000 JPY are eligible for this program.
- 5) The scholarship shall be canceled if the applicant fails to receive the Master's Degree by September 30, 2020.
- 6) If the applicants are handicapped and hope the special care about the entrance examination or the study in Japan, please consult with the entrance examination office before the application.

SCHOLARSHIP BENEFITS

- 1. Monthly allowance: A monthly amount of 70,000 Yen for the first year grade, 40,000 Yen for the second and the third year grades, respectively, shall be paid from Saga University at longest for three years from October 2020. This allowance may not be paid for the period when the recipient withdraws from the school temporally.
- 2. School fees: All school fees such as entrance examination, registration, and tuition costs, shall be waived. At the present moment, total waved amount for three years, that is equivalent of indirect support, reaches 1,919,400 Yen.

Remarks

1) Travel and accident insurance to/from Japan should be covered by recipient's own expense.

SELECTION AND ADMISSION

1. Applicants who have excellent records will take an interview or an internet interview by the desired Advisory Professor (Supervisor) after judgment of submitted papers and recommendation of the advisory supervisor. The interview or an Internet interview will confirm the experience of Partnership Program (an education program held between Saga University and applicant's university or institute) and or Collaboration Studies or Research Program between the two universities, and will confirm that applicant cannot apply for another university and will enter Saga University certainly when the applicant is selected as a candidate

- e. 文部科学大臣の指定した者
- f. 本学大学院において、個別の入学資格審査により、修士の学位を有する者と同等以上の学力があると認めた者で、2020年9月30日において満24歳に達したもの
- 4. 健康状態:心身ともに健全な者
- 5. 語学力:英語の能力が十分な者
- 6. 渡日: 合格した場合, 2020年9月30日までに渡日可能な者

注

- 1) 現役軍人や軍属の資格の者は出願できません。
- 2)上記に指定された期間に渡日できない者は採用を取り消されます。
- 3) 本学では、配偶者が既に国費外国人留学生である者は出願できません。また夫婦が同時に出願することはできません。
- 4) 他大学に併願している者、その他の月額 10 万円を超える奨学金に申請している者及び受給している者は出願できません。
- 5)修士の学位を取得見込みの者で、奨学金受給候補者となったものは、2020 年 9 月 30 日までに学位を取得できなければ、採用は取り消されます。
- 6) 障がい等を有する志願者で、受験上及び修学上の配慮を必要とする方は、出願前に 入試課に相談してください。

奨学金給付

- 1. 毎月の支給額: 2020 年 10 月からの最長 3 年間, 1 年次, 70,000 円; 2 年次, 40,000 円; 3 年次, 40,000 円が支給されます。休学期間は奨学金の支給はありません。
- 2. 諸経費:検定料,入学料,授業料などの諸経費は免除されます。2020年4月時点での積 算によれば,在学3年間で総額1,919,400円の間接的支援を受けることになります。

注

1) 渡日や帰国のための旅費と旅行保険代金は受給者負担になります。

選考と入学許可

- 1. 志願者のうちで、提出された書類及び受け入れ側の推薦書を審査し、総合的に判断して成績が優秀な者については、指導を希望する教員等による面接又はインターネットインタビューが行われます。面接又はインターネットインタビューでは、パートナーシッププログラムの参加や佐賀大学との共同研究の有無、学力、他大学に併願をしていないこと及び奨学金受給者として決定した場合は、必ず本学へ入学すること等の確認が行われます。この面接又はインターネットインタビューの結果は、奨学金受給候補者の選考に当たり、重要な資料となります。
- 2. 志願者は、SIPOP選考委員会によって選考され、学業成績、研究能力、面接等の結果が優秀であり、かつ佐賀大学と出身大学等からの強い推薦がある者だけが奨学金受給者として選ばれます。奨学金受給候補者は2020年7月上旬に通知され、必ず入学するという確約の返事をするように要求されます。
- 3. 2020 年 7 月に本学の奨学金受給候補者として入学を確約する時に、他の月額 10 万円を超える奨学金に申請している場合は他の奨学金の申請を取り消さなくてはなりません。また、入学確約以降は月額 10 万円を超える奨学金への応募もできません。2020 年 7 月に本学の奨学金受給候補者として入学を確約しない場合には、ただちに佐賀大学の希望教員と入試課にその旨を連絡ください。
- 4. 奨学金受給者数は4名です。

- of the scholarship. The academic ability of applicants will also be certified by the interview or an internet interview.
- 2. Applicants shall be examined by the Screening Committee of the SIPOP. Only those who have a solid academic background, research capability and recommendation from the professors of both Saga University and applicant's university will be selected. The selected scholarship candidates will be informed and asked to reply the acceptance of the selection immediately in the beginning of July, 2020.
- 3. When the applicants accept the scholarship candidacy in July, 2020, applicants should turn down the applications for other scholarships with monthly payment over 100,000 JPY if applicants already applied. After the acceptance of the scholarship candidacy, applicants are not allowed to apply the other scholarships over 100,000 JPY. If the applicants do not accept the scholarship candidacy in July, 2020, applicants should let it know to the desired supervisor and admission office of Saga University as soon as possible.
- 4. The total number of scholarship recipients is 4.

Remarks

- 1) Applicants selected as the scholarship student must enroll in the program. Refusal to enter the course after acceptance is not allowed.
- 2) Those who apply for Saga University are not allowed to apply for any other universities.
- 3) Those who have applied for the scholarships at Saga University and other university simultaneously will be cancelled applicants' scholarship candidate and Saga University will not accept any scholarship students from the university recommending the applicant at least for three years.
- 4) Those who were selected as a candidate of Saga University Scholarship applicants cannot apply for the other scholarships over 100,000 JPY.

ENROLLMENT

- 1. Date of enrollment is scheduled on the beginning of October, 2020. The exact date will be informed to a successful candidate.
- 2. Scholarship grantees shall be enrolled as regular graduate students of Saga University.

APPLICATION PROCEDURE

- Applicants will download the form from the internet and should prepare the following
 documents to be addressed to the Dean of the Graduate School of Science and Engineering, Saga University, through the head of the universities or the institutions with which the
 applicants are affiliated. Applicants who presently have no formal affiliation should send
 the prepared documents through the Dean of the University from where applicants graduated.
 - **① Application Form** (Form A).
 - **2 Application for the Scholarship** (Form B).
 - **Solution** Field of Study and Study Plan along with the applicant's experience on Partnership Program and/or Collaboration Studies with Saga University (Form C).
 - 4 **Health Certificate** in the prescribed form completed by a registered medical doctor within six months before the date of application (Form D).
 - Official transcripts of **Bachelor's degree**, and **Master's degree or a certificate** stating that the applicant will be conferred Master's degree by September 30, 2020. In the case that the applicant will be qualified by the criterion 3-e of **QUALIFICATIONS** described above, an official transcript of Bachelor's degree is required. The transcript or certificate must be sealed by the authority or sent directly from the university.
 - (6) Transcripts of **Academic Record** issued by the university authorities and its English translation.
 - (7) Certificate of a student's record of highest class in the University from which the applicant graduated. (GPA, ranking at the class, classification of ABC, or another corresponding numerical index)
 - 8 English summary of **Master Thesis** or it's equivalent if available, not exceeding four

注

- 1) 奨学金受給者として選ばれた志願者は、このプログラムに入学しなければなりません。 入学辞退は許可されません。
- 2) 本学へ申請している者は、その他の大学へ申請することは認められません。
- 3) 志願者が、本学の奨学金受給者として入学を許可されていても、他大学と併願していることが判明した場合は、奨学金受給者としての入学許可が取り消されます。さらに、応募大学の推薦資格が3年間取り消されます。
- 4) 本プログラムの奨学金受給者として選ばれた志願者はその他の月額 10 万円を超える奨学金への申請はできません。

入学

- 1. 入学日は 2020 年 10 月初旬を予定しており、合格者に対し別途通知します。
- 2. 奨学金受給者は、本学の正規大学院生として登録されます。

申請

- 1. 志願者は、在籍している大学や機関の長を通じ、下記の出願書類を本学大学院工学系研究科長名あて作成してください。現在、大学や機関に所属していない場合は、修了した大学の長を通じて送付してください。
 - ① 申請書(様式A)
 - ② 奨学金申請書(様式B)
 - ③ パートナーシッププログラムや共同研究の実績を踏まえた研究分野と研究計画(様式C)
 - ④ 申請日前6ヶ月以内に、公認の医者によって記入された指定の様式による健康診断書(様式D)
 - ⑤ 学士及び修士の学位記の写し(原本と相違ないことが証明されたもの)。現在学生の者は、2020年9月30日までに修士の学位を取得予定であるという証明書。応募資格3.学歴等のeに該当する志願者は学士の学位証明書を提出してください。
 - ⑥ 大学から出される成績証明書とその英語訳
 - ⑦ 最終出身大学において最上位クラスに属することが証明されたもの (GPA, ABC の クラス分け、具体的な順位等)
 - ⑧ 修士論文の概要又は研究報告書など修士論文の概要と同等のもので、A4用紙4枚以内、英文のダブルスペースでタイプしたもの。志願者が修了した大学で修士論文が必要とされなかった場合は、その趣旨の申告書を提出してください。
 - ⑨ 本国の戸籍謄本又は市民権等の証明書
 - ⑩ 推薦書及び証明書
 - a. 申請者が属する機関の長の推薦書(様式E)
 - b. 工学系研究科長あてに、志願者の研究/学力を知る者による証明書を提出して ください。

推薦書と証明書は志願者の英語能力が記されていなければなりません。もし志願者が佐賀大学奨学金受給者となった場合は、推薦書は本学へ必ず入学するということを証明する確約書のひとつとなります。

- ① 英語能力を客観的に示す証明書(例えば TOEFL, TOEIC など)
- ② 6cm×4cm サイズで申請目前6ヶ月以内に撮られた写真3枚(上半身,脱帽,正面向き)。そのうち2枚は申請書に貼付してください。他の1枚の写真は,その裏に申請者名と国名を記入し、出願書類に同封してください。
- 2. すべての書類は書留の航空便で送付してください。2020年5月22日までに佐賀大学学務部入試課必着とします。

sheets of A4 size paper typed in double space. When a "master thesis" is not required by the University from which the applicant graduated, prepare a statement to that effect.

- (9) Certificate of **Citizenship** issued by the appropriate authorities.
- Recommendation and Reference
 - a. A letter of **Recommendation** (Form E) from the head of the applicant's affiliated institution.
 - b. Letter(s) of **Reference** from those who know the applicant's research/study capability addressed to the Dean of the Graduate School of Science and Engineering.

The letters of recommendation and reference(s) should indicate the English proficiency of the applicant. The recommendation letter should refer to certify that the applicant will surely enter Saga University, if the applicant will be selected as a Grantee of Saga University scholarship.

- ① Certificate of English ability (for example, TOEFL, TOEIC).
- Three Photographs (hatless portrait), 6 cm×4 cm in size, taken within six months of application date. One copy should be attached to the application form. Two extra copies should be enclosed therein, with the applicant's name and the nationality on the reverse side of the copies.
- 2. All documents should be sent by registered air mail and must arrive at the Entrance Examination Office by **May 22,** 2020.

Remarks

- 1) The above documents should be typewritten in English on A4 size paper.
- 2) Incomplete documents are not acceptable.
- 3) Applicants are advised to choose applicants' desired Advisory Professor (Supervisor), and to indicate the supervisor's name on the application form (Form A).
- 4) None of the documents submitted is returned to the applicant in any case.

NOTES

- 1. Applicants should ask a recommendation letter to a relevant supervisor at Saga University and submission it to the Entrance Examination Office.
- 2. The rights of a grantee of the scholarship and tuition fee waive as well as studentship shall be deprived under the following cases:
 - a) False statements on the documents.
 - b) Violation of the pledge.
 - c) Leaving and/or transferring from the Graduate school of Saga University.
 - d) Violation of school regulations, and no satisfactory academic achievement.
- 3. Grantees are recommended to be well acquainted with the Japanese language, culture, customs, etc. A skill of the Japanese language is necessary in daily life.
- 4. Grantees are expected to complete applicants' Doctor Course Program within three years.

CORRESPONDENCE

The application form of the SIPOP should be sent by air mail to the address shown below. Note that the application forms must not be submitted in any kinds of electronic form. Forms sent by facsimile and attached files on e-mail are not accepted in any occasion.

Entrance Examination Office Saga University 1 Honjo-machi Saga 840-8502, Japan

Fax: (+81)-952-28-8944 E-mail: sipop@mail.admin.saga-u.ac.jp

注

- 1)上記の書類はA4用紙に英語でタイプしてください。
- 2) 不備書類は受付不可とします。
- 3) 志願者は教員リストから希望する教員を選び、その教員名を申請書(様式 A) に必ず記入してください。
- 4) 提出された書類は、志願者へ返却することはありません。

注意事項

- 1. 志願者は受け入れ予定教員に推薦書を佐賀大学学務部入試課に提出するよう依頼してください。
- 2. 下記の場合には、志願者は奨学金の受給資格と在学資格を失います。
 - a) 書類上の不正申告
 - b) 誓約書違反
 - c) 佐賀大学大学院を退学した場合
 - d) 学則違反や成績不良
- 3. 奨学金受給者は、日本語、文化、習慣などをよく身につけるように勧められます。日々の生活に日本語の知識は必要です。
- 4. 奨学金受給者は、3年以内に博士後期課程を修了しなければなりません。

問合せ先

SIPOP への申請書等は、下記宛に航空便で送ってください。ファックスや \mathbf{E} メールでの 出願は受理できません。

 $\mp 840 \text{-} 8502$

日本国佐賀県佐賀市本庄町1番地

佐賀大学学務部入試課

Fax: (+81)-952-28-8944

E-mail: sipop@mail.admin.saga-u.ac.jp

ORGANIZING ACADEMIC STAFFS IN THE DEPARTMENT OF SCIENCE AND ADVANCED TECHNOLOGY

Academic Staffs

Major Teaching and Research Fields

Course in Electronics and Information Systems

Chair of Mathematical Science

Pure and Applied Mathematics

Unsettled Advanced Arithmetic Geometry

Unsettled Complex Geometry

Unsettled Topic on Combinatorial Algebra
Y. Mashiko Advanced Global geometry
T. Shoda Advanced Complex Geometry

Mathematical Analysis

R. Kajikiya Advanced Study of Partial Differential

Equations

K. Handa Advanced Probability

Y. Hibino Advanced Applied Mathematical Analysis

Chair of Information Science

Information Science

Y. Okazaki Advanced Intelligent Educational Systems

H. Okumura Advanced Information Processing Systems for

Human and Machine Perception

S. Matsumae Advanced Parallel and Distributed Systems

K. Nakayama Advanced Emergent System

M. Otani Advanced Technology in Ubiquitous

Computing

Information Systems

Y. Yamashita Code Optimization Techniques

S. Tadaki Complex Systems

E. Hanada Medical/Healthcare Information SystemsO. Fukuda Biological information Engineering

T. Kakeshita Information Engineering

T. Minamoto
 Y. Hieida
 M. Hirotomo
 Numerical Functional Analysis
 Physics of Stochastic Models
 Algebraic Coding Theory and

Information Theory

Chair of Electrical and Electronic Engineering

Electronics, Information and Communication

I. Toyoda, T. Tanaka and E. Nishiyama

Advanced Microwave Engineering

H. Itoh

Advanced Computational Engineering

Q. Guo Advanced Optoelectronics
Unsettled High Power Laser Engineering
Unsettled Integrated Circuit Design

H.Wakuya Bionic and Cybernetic Engineering

S. Hara Photovoltaic System

S. Sasaki Advanced Electronics Packaging Technology
T. Tanaka Photoelectronic Materials and Devices

Advanced Power Electronics

M. KasuPower Electronic Devices and MaterialsT. OishiMicrowave Electronic Devices and Circuits

Y. Ohtsu and S.Ihara Plasma Energy Engineering
K. Takahashi Surface and Interface Dynamics

Course of Mechanical Engineering and Physical Science

Chair of Physics

Particle Physics and Cosmology

H. Aoki String Theory

M. Tachibana Quantum Chrimodynamics in hadron

H. Kouno Hadron Physics

K. Funakubo
 T. Takahashi
 Unsettled
 H. Ohsumi
 Baryon Asymmetry in Universe
 Particle Physics Cosmology
 High Energy experimental physics
 Particle and Nuclear Physics

Condensed Matter Physics

XG. Zheng Condensed Matter Physics, in special,

Quantum Magnetism and Multiferroics,

Nano Science

M. Maki Strongly correlated electron system

Y. Ishiwata Physics of nanostructure
Unsettled Simulation of quantum effect
Y. Okayama Physics in superpressure

J. Azuma Optical processes in condensed matter

Chair of Mechanical Engineering

Thermo-Fluid Energy Engineering

A. Miyara Heat and Mass Transfer
Y. Kinoue and N. Shiomi Fluid Engineering

T. Sumi

Y. Mitsutake Thermal Engineering

Material and Design Engineering

N. Hattori, S. Hagihara, S. Morita Mechanics of Materials, Solids and

Y. Tadano and S. Taketomi Structures

B. Zhang and H. Hasegawa Design and Production Engineering

T. Tsujimura and K. Izumi Robotics and Control K. Sato Control Engineering

Ocean Energy Engineering

Y. Imai Ocean Engineering

Y. Ikegami Thermal Energy Conversion Systems

H. Arima Thermal Engineering

Course of Environmental Science and Engineering

Chair of Chemistry and Applied Chemistry

Inorganic Materials Chemistry

M. Koikawa and Y. Yamada Coordination Chemistry

Organic Materials Chemistry

Unsettled Organic Synthesis

T. Narita Advanced Organic MaterialsT. Hanamoto Synthetic Organic Chemistry

Unsettled Biochemistry

T. OkajimaS. OsadaBioorganic Chemistry

Environmental Physical Chemistry

M. Era Physical Chemistry of Organic Materials for

Electronics and Photonics

M. Unno Molecular Spectroscopy and Biophysics
M. Tominaga Bioelectrochemistry, electrochemistry in

nanocarbon interface and mud battery

Environmental Chemistry and Engineering

K. Ohto Environmental Chemical Engineering

T. Takamuku Ultra-micro Analysis

S. Morisada Colloidal Chemical Engineering

Chair of Civil Engineering and Architecture

Civil Engineering

T. Hino Geotechnical Engineering
H. Obiya Structural Engineering

Y. Ito Construction Materials and Infrastructure

Management System

Environmental System Engineering

K. Ohgushi, H. Yamanishi Water Environmental System

and V. Narumol

H. Li and T. Inohae Urban System and Environment

Architecture and Urban Design

N. Mishima, and R. Gotoh Urban Design and Architecture

S. Kojima and K. Nakaokubo Environmental Design for Architecture

Regional Economic and Industrial Systems

M. Nakanishi Regional policy on Industrial and Employment

M. Shinagawa Rural Development

T. Kidota Accounting Information System

H. Tsuzuki Social Choice and Mechanism Design

System on Human Society and Culture

J. Hanmo Regional Economics and Sociology
H. Miyawaki Environmental Ecology and Law

M. Yamashita Urban Geography

Course of Advanced Technology Fusion

Chair of Advanced Technology Fusion

Biomedical Engineering

S. Goto Systems Control
S. Matsuo, T. Hashimoto and T. Sumi Fluid Engineering
K. Teramoto Sensing Systems

K. Muramatsu Computational Electromagnetics

A. Kimoto Instrumentation System

H. Dozono Soft ComputingN. Ueno Interface device

Md. T. I. Khan Biomedical Motion Sensing

Unsettled Biomedical Imaging

T. Sugi Biomedical Signal Processing

Advanced Material Chemistry

M. Yada Functional Ceramics

M. Takeshita Advanced Organic Materials

H. Kawakita Environmental Chemical Engineering

DETAILED RESEARCH FIELDS

Graduate School of Science and Engineering Department of Science and Advanced Technology

Chair of Mathematical Science

Research Field: Differential Geometry, Topology, Number Theory, Algebraic Geometry,

Combinatorial Algebra

Research Field: Partial Differential Equations, Probability, Complex Analysis

Chair of Information Science

Research Field: Environmental Education System supported by computers as the knowledge com-

munication system and intelligent interface between human and computer

Development of Internet Collaboration System for Supporting International Tele-

medicine

Code Optimization for RISC Processors

Traffic control in high-speed networks Research on reliable data transmission

Research Field: Basic theory on mathematical treatment and analysis of information

Construction of algebraic geometry codes having superior properties

Numerical method with guaranteed accuracy of solutions for partial differential

equations

Research Field: Fundamental technologies in order to fully utilize and to design computer systems

Development of the user authentication system for the open space network

Research on Personal Data Management System, Research on Systematic Educational System for Software Engineers

Support System for Cooperative Software Development Exercise, TA Robot System for Foreign Language Education Using 3D Virtual Space, Research on Personal Data Management System, Research on Systematic Educational System for Software Engineers

Constructing error-correcting codes for ECOC

Research Field: Interface Science between Computer and Human as well as Nature

Global monitoring from space, Human Computer Interaction

Development of remote sensing image processing technique using high resolution satellite images, Development of high efficient electronic chart system for ophthalmology, Development of a virtual eyeball model

Development of Search System based on identity of feature within satellite image data

Research Field: Fundamental perspectives on intelligence, knowledge and complex behavior of natural systems

An Analysis of Information and Its Exchange between a Teacher and Students for Practical Remote Lessons

Educational system and environment with computers and networks

Chair of Electrical and Electronic Engineering

Research Field: Communication Engineering and Advanced Circuit Technology

Microwave Circuits Planar Antennas Electronic Circuits

High-speed Interconnections Communication Systems

Research Field: Power Electronics

Electronic Devices

Plasma Energy Engineering Surface and Interface Dynamics

Research Field: Optoelectronic Materials and Applications

Epitaxial growth and characterization of semiconductor materials

Advanced optoelectronic devices

Photovoltaics Network Analysis Pulse power engineering

Synchrotron light application for materials processing and characterization

Research Field: Advanced Computational Engineering and Artificial Intelligence

Power Engineering and Smart Power Grid System

Electromagnetic and Acoustic Analyses

Virtual Reality (VR) and Augmented Reality (AR)

Biomedical Signal Processing

Neural Networks Intelligent Robotics

Natural Language Processing

Chair of Physics

Research Field: Quantum Field Theory

Phase transition in Quantum Chromodynamics

Sign problem of Lattice OCD

Baryon Asymmetry
Dark Energy of Universe
Linear Collider experiment

Particle detector

Research Field: Geometrical Frustration of M₂(OH) ₃X

High-temperature superconductivity

Spin glass

Quantum size effect Quantum Entanglement

Chair of Mechanical Engineering

Research Field: Strength of Materials

Mechanics of Solids and Structures

Fatigue strength of metals and advanced materials

Computational Mechanics Numerical Analysis Methods

Research Field: Design and Production Engineering

Design of machinery and machine elements

Tribology of machine elements

Surface engineering

Research Field: Heat and mass transfer

Heat exchanger, absorption condensation, evaporation Modeling and analysis of geothermal power station

Plant system control; Modeling and control of Ocean/Spring Thermal Energy

Conversion(OTEC/STEC), Modeling and control of chemical plant

Robotics, Mechatronic system control, Simulator for articulated robot arm, Me-

taheuristic systems

Research Field: Thermal Energy Conversion Systems

Ocean thermal energy conversion plant, development of thermal energy conversion

system

Research Field: Thermal Engineering

High density heat transport, boiling heat transfer, effective utilization of high density

thermal energy

Research Field: Fluid Engineering

Turbomachinery, compressible fluid flow, effective utilization of fluid energy,

multiphase flow

Chair of Chemistry and Applied Chemistry

Research Field: Coordination Chemistry

Education and studies on synthesis, structure, and physical properties of organic and

metal complexes

Structural aspects of metal complexes

Basic coordination chemistry Bondings in metal complexes

Research Field: Functional Molecular Chemistry

Education and studies on reaction, analysis, separation, and sensing of metal ions

and organic molecules in artificial and biological environments

Kinetics and mechanism for environmental analysis

Advanced molecular recognition chemistry

Advanced Bioelectrochemistry

Research Field: Environmental Chemistry

Advanced environmental chemistry

Research Field: Material Engineering for Separation

Comprehensive study on separation science and technology

Separation science and technology of recycling for sustainable society

Research Field: Biomolecular Spectroscopy

Vibrational spectroscopy of biomolecules

Computational chemistry

Chair of Civil Engineering and Architecture

Research Field: Geotechnical Engineering

Theory and practice of geotechnical engineering prediction and prevention of ground

disaster

Advanced geotechnical engineering Advanced geo-environmental engineering Geomechanics and rock engineering

Advanced soil mechanics

Research Field: Structural Engineering

Advanced earthquake engineering

Theory of basic and application of large scale structure systems

Advanced structural analysis System analysis of structures Advanced structural design

Advanced computational mechanics

Research Field: Urban Design

Basic principle and application of urban planning and transportation planning

Advanced urban space design Advanced transportation planning Advanced environmental evaluation Research Field: Architecture

Town space design

Advanced Architectural environmental control

Urban and Building Environment

Research Field: Water Management System

Water resources engineering Wastewater treatment systems

Computational hydraulics and remote sensing engineering for water environment

Water resources management

Water environmental systems engineering Environmental systems engineering Water pollution control systems

Advanced hydraulic network system planning

Planning theory on water environment

Research Field: Construction Materials

Improvement of mechanical properties of construction materials

Utilization of waste materials Advanced concrete engineering

Maintenance management of concrete structures

Development of inspection technique for concrete structure

Advanced geotechnical materials Geotechnical materials engineering

Research Field: Accounting Information and Social Choice

Research Field: Regional Policy of Industry and Rural Development

Research Field: Economics for Developing Countries

Research Field: Environmental Ecology Research Field: Social System and Culture

Chair of Advanced Technology Fusion

Research Field: Interface Function Engineering

Robotic Manipulator Control, Mobile Robots,

Neuro-Fuzzy Control Systems, Evolutionary Control Systems, Behavior-based Control Systems, Self-organizing Robotic Systems, Biorobotics, Robotics in Medicine, Human Motion Simulator, Intelligent Robot, Soft Computing, Robotics in Industry,

Friction Compensation,

Control theory, robust control, adaptive control

Research Field: Intelligent Control Engineering

Compensation of hand movement by additional force

Power system control; Reliability analysis of equipments in power stations,

Mechatronic system control; Simulator for articulated robot arm,

Cooperative control of plural robots, Forcefree control

Non-invasive diagnosis system; Novel measurement techniques without references

are on the trial

Medical and welfare sensor system; All field of sensing system for medical and

welfare purpose are developed

Mobile and robotics multi-sensing; Advanced new sensors for mobile and robotics

are studied

Research Field: Biological System Dynamics and Informatics

Fluid Engineering

Advanced electromagnetics

Sensing Systems Biomedical sensing Signal processing Research Field: Functional Ceramics

Education and studies on structural and functional ceramics

Advanced inorganic materials Ceramics for advanced battery

Advanced ceramics and electronic ceramics Preparation and properties of ceramics

Research Field: Physical Chemistry for Organic / Inorganic Hybrid Molecular System

Optoelectronic materials Advanced solid state chemistry

Research Field: Functional protein chemistry

Synthesis and function of biologically active substances and their related artificial

materials

Advanced computational material chemistry Advanced synthetic organic chemistry Chemistry of cooperative interaction

STRATEGIC INTERNATIONAL POSTGRADUATE PROGRAM (SIPOP)

AT THE GRADUATE SCHOOL OF SCIENCE AND ENGINEERING SAGA UNIVERSITY

APPLICATION FORM

INSTRUCTION (記入上の注意)

- 1. Application should be typewritten or written in Roman letters. (記入は楷書又はローマ字体を用いること。)
- Numbers should be written in Arabic figures.
 (数字は算用数字を用いること。)
- 3. Year should be written in the Anno Domini system. (年号はすべて西暦とすること。)
- 4. Proper nouns should be written in full and not be abbreviated. (固有名詞はすべて正式な名称とし、一切省略しないこと。)
- 5. Enter the address below for notifying the result of the selection. (合格通知書等の送付先を下記欄に記入のこと。)

	To:
Name :	
Present : Address	
Tel/Fax	

*受験番号	
第	号

STRATEGIC INTERNATIONAL POSTGRADUATE PROGRAM (SIPOP) AT THE GRADUATE SCHOOL OF SCIENCE AND ENGINEERING SAGA UNIVERSITY

(GRADUATE SCHOOL OF SCIENCE AND ENGINEERING)

2020 年度佐賀大学大学院戦略的国際人材育成プログラム(工学系研究科博士後期課程)入学志願票

Dej	partment of Science and A	dvanced Te	chnology			
Cou	arses:					Paste your passport
	Electronics and Information Mechanical Engineering a Environmental Science and		photograph taken within the past 6 month Write your name and			
	Advanced Technology Fus	ion				nationality in
Cha						block letters on the back of the photo.
	Chair					
	Field				_	(Size $(6 \times 4 \text{cm})$)
Na	me of the desired supervis	or(指導を希旨	望する主指導教員	名をかならず	記入すること。)	
_						
1.	Name in full, in native la	nguage (姓:	名(自国語))			
-	(Family name)	, (First	name)	, (M:	iddle name)	- (Sex)
	In Roman letters (中マ字)	(11120		(212	14410 1141110)	□Male (男) □Female (女)
_	(Family name)	, (First	name)	, (M:	iddle name)	- (Marital Status) □Single (未婚)
2.	Nationality (国籍) —					□Married (既婚) -
3.	Date of birth (生年月日)	Year 19	,Month	,Date	,Age	(As of April 1st, 2020)
4.	Present status; with the id現職:在学大学名又は勤務先名ま		-	(日) attended or	(年齢) of the empl	oyer.
5.	Present address and telep (現住所、電話及びファクシミリ番号又ル			number o	r E-mail add	dress
	(Office):			Tele	ephone number	
					simile number	
	(TT) .				ail address	
	(Home):				ephone number	
					simile number ail address	
6.	Permanent address (本籍)				

7.	Field of study specialized in the past (Please describe in detail as concrete as possible.)
	(温土に東攻) た東明公野(できるだけ具体的に詳細にまくこと))

8. Educational background (学歴)

		Name and address of school	Officially required years of	Year and month of entrance and	Major subject (専攻科目)	Diploma or degree
		(学校名及び所在地)	schooling	completion (入学及び卒業年月)		awarded (学位·資格)
Elementary I (初等教育)	Education	Name (学校名)	years (年)	From (入学)		
Elementary S (小学校)	School	Location (所在地)		To (卒業)		
Secondary Education (中等教育)	Lower (中学)	Name (学校名) Location (所在地)	years (年)	From (入学) To (卒業)		
Secondary School (中学 及び高校)	Upper (高校)	Name (学校名) Location (所在地)	years (年)	From (入学) To (卒業)		
Higher Educa (高等教育)	ation	Name (学校名)	years (年)	From (入学)		
Undergradua (大学)	ate Level	Location (所在地)		To (卒業)		
Graduate Level (大学院)		Name (学校名) Location (所在地)	years (年)	From (入学) To (卒業)		
Total years of schooling (以上を通算した全学校績			years (年)			

- * In the case, the blank spaces above are not sufficient for information required, please accompany this form by an attached sheet. ((注)上欄に書ききれない場合には、適当に別紙に記入して添付すること。)
- 9. State the titles or subjects of books or papers (including graduation thesis authored by applicant), if any, with the name and address of publisher and the date of publication.

(著書、論文、(卒業論文を含む)があればその題名、出版社名、出版年月日、出版場所を記入すること。)

10	Employment	Record: Be	rin with th	e most recent	employment,	if applicable	(職歴)
		TICCOLU, DC				ii abbiicabic.	(460/16

Name and address of organization (勤務先及び所在地)	Period of employment (勤務期間)	Position (役職名)	Type of work (職務内容)
	from		
	to		
	from		
	to		
	from		
	to		

11. Japa	anese language background, if any (日本語の学習歴)	
i)	Name and address of institution (学習機関及びその住所)	

Year (年) Month (月)

ii)	Period of study:	from		to	,	

iii) Name of teacher (教師名)

(学習期間)

iv) Japanese language proficiency: Evaluate your level and mark with a × where appropriate in the following categories. (日本語能力を自己評価のうえ、該当欄に×印を記入すること。)

Year (年)Month (月)

Years(年間)

	Excellent(優)	Good(良)	Poor(不可)
Reading (読む能力)			
Writing (書く能力)			
Speaking (話す能力)			

12. Foreign language proficiency: Evaluate your level and mark with a \times where appropriate in the following categories. (外国語能力を自己評価のうえ、該当欄に \times 印を記入すること。)

	Excellent(優)	Good(良)	Poor(不可)
English(英語)			
French(仏語)			
German(独語)			
Spanish(西語)			

13. Family background (家族状況)

Name(氏名)	Relationship (続柄)	Age (年齢)	Occupation (職業)	Address (住所)	Living or Deceased (生死)	* Check your accompanying dependents to Japan. (注)渡日する場合、同伴予定の家族には該当欄に×印を記入すること。
	Father(父)					
	Mother(母)					
	Spouse(配偶者)					

^{*} All expenses incurred by the presence of dependents must be borne by the grantee. He/She is advised to take into consideration the various difficulties and great expense that will be involved in finding living quarters for them.

⁽注) 同伴者に必要な経費はすべて留学生の負担であり、また家族用の宿舎を見つけることは相当困難であり、賃貸料も非常に割高 になるため、あらかじめ承知されたい。

			あれば、その期間、受入れ大学名等を記入すること。)
1)	Yes, I have.	(ある。)	Period(期間);
2)	No, I have n	ot (721)	University(大学名等);
exc	ept Japan? If	so, give the	universities as monbukagakusho scholarship or other university name(s) of university(ies), month, year, amount, etc. 期間、金額等を記入すること。 (See! p.2-3, "Selection and Admission" and "Remarks")
7. Pers	son to be noti		cant's home country, in case of emergency: (緊急の際の母国の連絡先)
ii)		-	e number, facsimile number or E-mail address: 電子メールアドレスも記入すること。) Telephone Facsimile
Αα	aress		E-mail address
iii)	Occupation	職 業):	
iv)	Relationship)(本人との関係)	:
3 Imn	nigration Rec	ords to Japa	nn. (日本への渡航記録)
, 11111		Purpose (渡航目的)
	(日付)		
Date From	(日付)		
Date From Fo From	(日付)		
Date From Fo From	(日付)	Date of app	plication(申請年月日):
	(日付)		olication(申請年月日): s signature(申請者署名):

14. Is there anyone in your family who has been awarded or is applying for the Japanese Government

Scholarship? If yes, please give his/her name.

*受験番号	
第	号

APPLICATION FOR SAGA UNIVERSITY SCHOLARSHIP

佐賀大学奨学金留学生申請書 (別紙)

(Family name)	(First name)	(Middle name)	(Sex) □Male(男) □Female(女)
Date of birth (2	生年月日)		
19			Paste your passport photograph taken
-		ge(年齢) As of April 1,2020 (2020 年 4 月 1 日現在の年齢)	within thepast6months Write your name and nationality in
			block letters on the back of the photo.
	, telephone and facsim ファクシミリ番号,Eメー	iile number, E-mail address ールアドレス)	(Size (6×4cm))
The institution	you have graduated/wi	ll graduate. (卒業した,あるいは ²	卒業予定の機関)
The institution y Institution (機関	-	ll graduate. (卒業した,あるいは ² Year (年)	卒業予定の機関) Month(月)
		Year (年)	
Institution(機関 Conferred Degre (取得学位)	ee : a) Bachelor Do	Year (年) egree b) Master's Degree (修士)	Month (月) c) Doctoral Degree
Institution(機関 Conferred Degre (取得学位) Field of study in	ee: a) Bachelor Do (学士) Japan (日本での専攻希 ng for other scholarsh	Year (年) egree b) Master's Degree (修士)	Month(月) c) Doctoral Degree (博士)
Institution(機関 Conferred Degre (取得学位) Field of study in If you are applyi (他の奨学金に応募 Have you ever je	ee: a) Bachelor Do (学士) Japan (日本での専攻希 ng for other scholarsh 等している場合は、その名詞 pined the partnership g	Year (年) egree b) Master's Degree (修士) 奇望) ips, state the name of sponsor, d	Month(月) c) Doctoral Degree (博士) uration, amount, etc.
Institution(機関 Conferred Degre (取得学位) Field of study in If you are applyi (他の奨学金に応募 Have you ever jo th professors of Search projects, e 今までに佐賀大学の	ee: a) Bachelor Do (学士) Japan (日本での専攻希 ng for other scholarsh 等している場合は、その名言 pined the partnership staga University? If so, tc. 教授とのパートナーシッフ	Year (年) egree b) Master's Degree (修士) 記録 ips, state the name of sponsor, d 前,期間,金額等を記入すること。) program of Saga University and	Month (月) c) Doctoral Degree (博士) uration, amount, etc. Vor the collaboration stude of the program and/or
Institution(機関 Conferred Degre (取得学位) Field of study in If you are applyi (他の奨学金に応募 Have you ever joth professors of Search projects, e	ee: a) Bachelor Do (学士) Japan (日本での専攻希 ng for other scholarsh 等している場合は、その名言 pined the partnership staga University? If so, tc. 教授とのパートナーシッフ	Year (年) egree b) Master's Degree (修士) 論望) ips, state the name of sponsor, d 前,期間,金額等を記入すること。) program of Saga University and please give the period, the name	Month(月) c) Doctoral Degree (博士) uration, amount, etc. Vor the collaboration stune of the program and/orがあれば、その期間・プロク

*受験番号	
第	号

専攻分野及び研究計画 Field of Study and Study Program

Name in full, in native language	,		,
(姓名(自国語))	(Family name)	(First name)	(Middle name)
Nationality			
(国籍)			

Proposed study program in Japan; State, in more than 600 words, the details of your major field of study and study program based on your experiences of the partnership program or the collaboration studies with Saga University. This item will be used as one of the most important references for selection. Statement must be typewritten in block letters. Additional sheets of paper may be attached if necessary.

日本での研究計画(この研究計画は、選考の重要な参考となるので、専攻分野、研究計画をパートナーシッププログラムや共同研究の経験に基づいて、600字以上で詳細に記入すること。記入は、タイプ又はワープロによるものとし、必要な場合は別紙に追加してもよい)

1. Field of study (専攻分野)

2. Study Program in detail . (研究計画;詳細に記入すること。)



*受験番号	
第	号

健康診断書

CERTIFICATE OF HEALTH (to be completed by examining physician)

	唇又は英語により明 e fill out (PRINT/T)			1.					
氏名 Name	s: Family name,		, First name	Middle r	name		Male Female	生年月日 Date of Birth:	年齢 Age:
	身体検査 Physical Examinat	ions							
(1)	身 長 Height	_cm	体 重 Weight	kg					
(2)	血 圧 Blood pressure_		mm/Hg~	mm/Hg	血液型 Blood Type	A	BO RH	+ - 脈拍 Pulse	□整 regular □不整 irregular
(3)	視力 Eyesight : (R) ^{埋眼}	without gl	L)	(R) 锤正 with a	(L) lasses or cont	tact la			
(4)	聴力 Hearing:	□正常 no □低下 in	ormal	言語 口耳	E常 normal 医下 impaire		lises		
	効。)	って,聴診と e results of	X 線検査の結果	を記入してく	- ださい。X 線	検査の			月以上前の検査は無 ore than 6 months
			□正常 noi g: □異常 im Date m No.		₹ rdiomegaly:		正常 norma 異常 impair ↓ ↓常がある場 心電図 El	red	ı∶□正常 normal □異常 impaired
	現在治療中の病気 Disease Treated at		□Yes (Disea		t's lung.)	_><
	既往症 Past history : Pleas	se indicate	with $+$ or $-$ and	l fill in the dat	te of recovery	7			
	Tuberculosis Epilepsy (Diabetes Functional Disorde)	Kidney Dise Drug Allerg	ease□(gy□(Н		able disease□(
	検 査 Laborator 検 尿 Urinalysis), protein (), occul	t blood()			
	赤沈 ESR : Hemoglobin :				mm 貧血 ane	ı∟ [emia			
6.	診断医の印象を述べ Please describe you	べて下さい。							
	studies in Japan?	licant's his	tory and the abo s \square no \square						すか? adequate to pursue
	日付 Date <u>: </u>		署名 Signature <u>:</u>						
	Phy	検査	me in Print: 施設名						

RECOMMENDATION AND CERTIFICATION

By the Head of Applicant's University or Institute

TO: President of Saga University

This is to recommend Mr./Ms.	
as a candidate for a Scholarship Winner in your U	niversity.
Mr./Ms	
I certify that Mr./Ms.	will enter
your university in October 2020 if he/she is awai	rded the Saga University Scholarship
Date:	
Recommender's name:	
in Roman block letters:	
Cianatura.	
Signature:	
Title ————	
Institution:	
(or Company)	
Present Address:	